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NAME _____ DATE _____

SIMILAR TRIANGLES: Worksheet 4

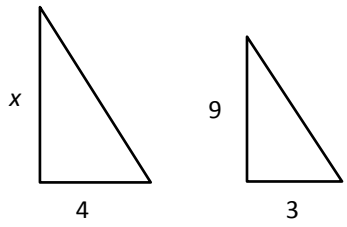
Solve the following proportions for *n*.

1) $\frac{16}{n} = \frac{5}{8}$

2) $\frac{2.2}{11} = \frac{n}{20}$

Find *x* in the following pairs of similar triangles. Triangles are not to scale.
Proportions may vary to solve for answer.

3)



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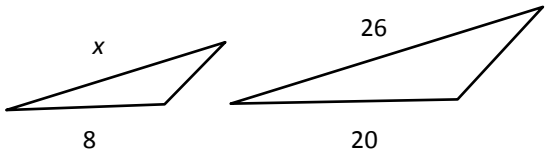

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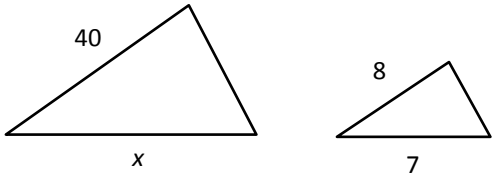

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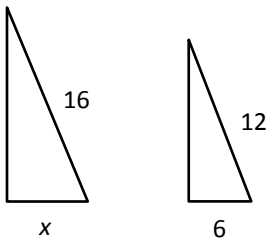

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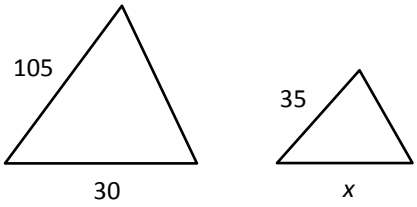

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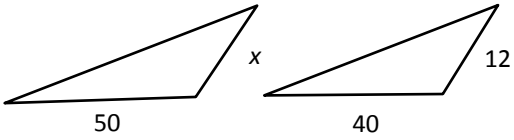

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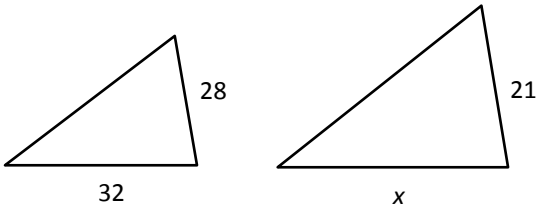

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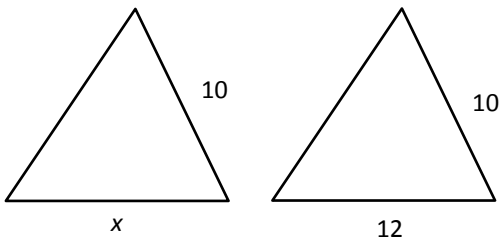

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KEY
SIMILAR TRIANGLES: Worksheet 4

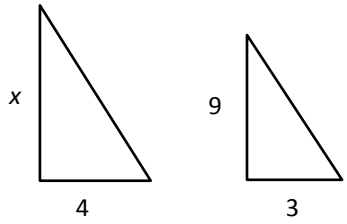
Solve the following proportions for *n*.

2) $\frac{16}{n} = \frac{5}{8}$ $n = (16 \bullet 8) \div 5 = 25.6$

2) $\frac{2.2}{11} = \frac{n}{20}$ $n = (2.2 \bullet 20) \div 11 = 4$

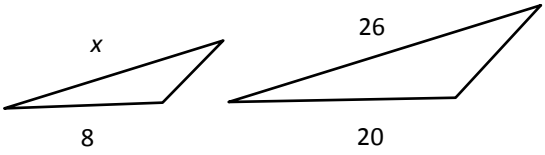
Find *x* in the following pairs of similar triangles. Triangles are not to scale.
Proportions may vary to solve for answer.

3)



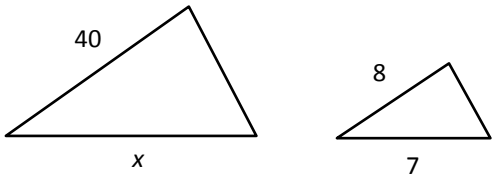
$\frac{x}{9} = \frac{4}{3}$ $x = (9 \bullet 4) \div 3 = 12$

4)



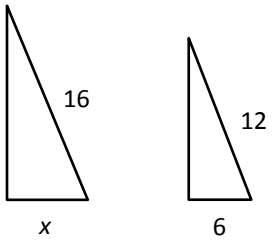
$\frac{x}{26} = \frac{8}{20}$ $x = (26 \bullet 8) \div 20 = 10.4$

5)



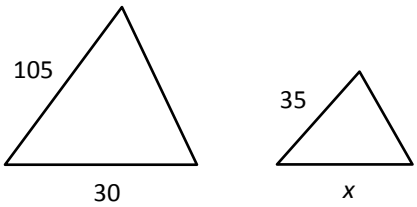
$\frac{40}{8} = \frac{x}{7}$ $x = (40 \bullet 7) \div 8 = 35$

6)



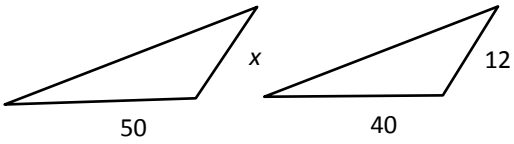
$\frac{16}{12} = \frac{x}{6}$ $x = (16 \bullet 6) \div 12 = 8$

7)



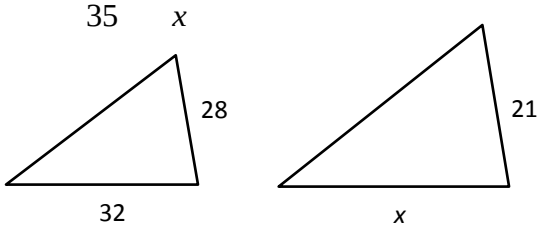
$\frac{105}{35} = \frac{30}{x}$ $x = (35 \bullet 30) \div 105 = 10$

8)



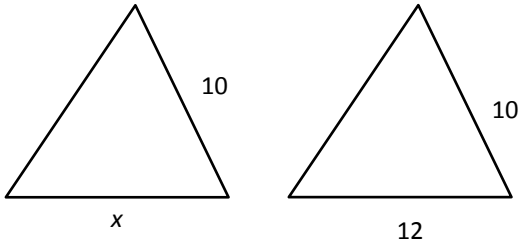
$\frac{x}{12} = \frac{50}{40}$ $x = (12 \bullet 50) \div 40 = 15$

9)



$\frac{28}{21} = \frac{32}{x}$ $x = (21 \bullet 32) \div 28 = 24$

10)



$\frac{10}{10} = \frac{x}{12}$ $x = (10 \bullet 12) \div 10 = 12$